

Lumiotec OLED Panels Adopted to Illuminate Special Exhibition At Tokyo National Museum

- Highlight of Special Exhibition of Treasured Masterpieces from the National Palace Museum, Taipei -

Yamagata, Japan, June 24, 2014 – Organic light-emitting diode (OLED) lighting panels (P07 Series) made by Lumiotec Inc. have been adopted to illuminate a highlight of Special Exhibition” Treasured Masterpieces from the National Palace Museum, Taipei”¹ currently held at the Tokyo National Museum. The OLED panels are adopted to illuminate 15 exhibition cases, including “San Shi Pan”² (made in Western Zhou dynasty, B.C.8 – 9th century)”.

Lumiotec’s P07 Series OLED panels provide the world’s highest standard of color reproductivity³ that enables vivid presentation of color variations plus soft, uniform, surface-radiated light that causes minimal reflection of the light fixture, creating a subdued exhibition environment. In addition, because the panels give off neither ultraviolet nor infrared rays, the light source generates heat evenly and with minimal rise in temperature.

Under supervision of Tokyo National Museum, exhibition hall and its illumination were designed by DESIGN OFFICE io, and installation of the exhibition was handled by Nomura Co, Ltd.. With its properties, P07 OLED panels are able to set close to exhibits, creating light up effect with soft and uniform light causing minimal reflection.

With the properties such as high color reproduction, uniform radiation and low heat emission of P07 OLED panels, MHI will continue to develop the field of lighting for museums.



The adoption of OLED lighting panels to illuminate exhibits of this kind offers a number of salient advantages:

- The fine colors of the exhibited item are faithfully reproduced.
- There is minimal reflection of the lighting panels onto the exhibited item.
- Especially delicate items such as textiles and paper suffer less damage (fading, discoloration, etc.) than with conventional light sources³ – due to the absence of ultraviolet light and the presence of minimal damage-causing wavelength components in visible light.
- Exhibits suffer less damage from heat or temperature changes than with use of conventional light sources – owing to the absence of infrared rays and radiant heat, plus minimal temperature rise by the light source itself.
- The emitted light is remarkably soft, so it is never distracting and can be used even at floor level.
- The panels are thin and lightweight and do not require significant installation space. They can easily be used to replace conventional light sources in exhibition cases.

1 The exhibition runs from July 13 through September 8 at the Museum's Heiseikan.

(http://www.tnm.jp/modules/r_free_page/index.php?id=1602&lang=en)

2 "San Shi Pan" (made in Western Zhou dynasty, B.C.8 – 9th century) restored National Palace Museum, Taipei.

The inscript at the bottom of the pan indicating territorial dispute of numerous nations at the time, is an extremely rare substance. Along with its remarkably unique inscription, it figures prominently not only in political but also in calligraphy history of China. The work was a tribute to the 50th anniversary of Jiaqing Emperor at 1809 by his allegiant. Symbolizing the power for establishing territory boundary, it is the one and only existence, truly worthy for emperors' collection.

3 Color Rendering Index (Ra) 90 (based on Lumiotec's data)

4 Based on comparisons of the U.S. National Institute of Standards and Technology's (NIST) "damage coefficient," which assigns numerical values to degrees of paper discoloration; the lower the coefficient value, the smaller is the impact of a light source on an exhibition item. Whereas the damage coefficient of commercially available fluorescent lamps (neutral white) typically used in museums and art galleries is 0.012, the corresponding coefficient of the Lumiotec P07 Series panels is 0.008 (based on Lumiotec's data).

LUMIOTEC:

Jointly founded by Mitsubishi Heavy Industries, Ltd. (MHI), ROHM Co., Ltd., Toppan Printing Co., Ltd., et al. in May 2008, Lumiotec Inc. is the world's first company dedicated to OLED panels for use in lighting. Following the development of a device structure simultaneously achieving outstanding luminance and long service life – features long considered impossible to accomplish together – and the realization of a large-scale linear evaporation source type in-line deposition device, a mass production line was built in Yonezawa City, Yamagata Prefecture. In January 2011 Lumiotec became the first company in the world to manufacture and launch shipments of OLED panels for lighting applications.

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Starting April 1, 2013, Lumiotec has entrusted all sales activities to its parent company, Mitsubishi Heavy Industries, Ltd. (MHI):

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